GEOGRAPHIC NEWS BULLETINS

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THE NATIONAL GEOGRAPHIC SOCIETY

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NOTE TO TEACHERS.—Because so many schools and public libraries preserve copies of the GEOGRAPHIC NEWS BULLETIN for future reference, a subject index is supplied annually, listing both bulletins and pictures. The INDEX to Volume XV, contained in this issue, covers the 30 issues from February 24, 1936, through the current number.

Photograph by Violet Ohlsen

JUNGLE BABIES HAVE LIVE TOYS

Toy electric trains or talking dolls would have a hard time reaching the interior of Ecuador, with mule-pack travel following an ocean voyage and a ride on a train which does not run at night. But children must play, even where playthings are an unheard-of luxury. So this South American youngster, who could not afford factory-made toys, has a living toy which would be a luxury to young North Americans—a little woolly monkey. The Indian baby lives not far from Mount Chimborazo, Ecuador's highest peak (see Bulletin No. 3).

HOW TEACHERS MAY OBTAIN THE BULLETINS

The Geographic News Bulletins are published weekly throughout the school year (thirty issues) and will be mailed to teachers in the United States and its possessions for one year upon receipt of 25 cents (in stamps or money order); in Canada 50 cents. Entered as second-class matter, January 27, 1922, at the Post Office at Washington, D. C., under the Act of March 3, 1879. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized February 9, 1922.

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Valencia, Now Spain's "Spare" Capital

THE homeless, the wounded, and the government, bombarded from Madrid and central Spain, took refuge in Valencia on the Mediterranean coast. Bombardment, news reports reveal, has finally followed them there.

Embassies established temporarily at Valencia include that of the United States. One observer reports that during the few months in which Valencia has been the center of government, almost a million refugees and others have knocked on its gates and been admitted to shelter.

Fortunately for the refugees, Valencia is admirably located as a "relief" capital. Three miles down the Turia River lies a busy harbor mouth on the Mediterranean, which makes inland Valencia Spain's second seaport. On three sides rise the distant ramparts of mountains; on the fourth side spreads the blue sea. Moreover, this is almost the food capital of the country, for it is a center of what has been called the most fertile spot in Spain, and food is within reach.

Snow Once in a Lifetime in This Sunny South

Even the climate is hospitable. Rainfall is light, and snow was reported only twice during the past century. The secret of Valencia's lushness is irrigation. To this rainless area the Moors of the Middle Ages brought fruitfulness and fruitiness—oranges, apricots, figs, raisins. They nourished the land with silver veins of water from an irrigation network. Grain fields ripen into dull gold in defiance of a parching sun. A marshy coastal strip produces some of the finest rice in the world (see illustration, next page).

Irrigation keeps alive, too, one of the rare spectacles within the city itself, the Tribunal of the Waters, an open air court held, for ten centuries, every Thursday morning, the customary market day of the now exiled Moors. Outside the Cathedral, within the shadow of the bell which gives the signal for opening or closing sluices, gather the half-dozen peasant judges of this supreme court of irrigation. There are no lawyers, no oaths, no records, no written laws. Cases are stated by the principals, usually in the old Valencian tongue. Penalties and oral decisions are handed down immediately, and there is no appeal.

From its setting of green and gold countryside, Valencia rises as a white city with blue and gold touches on its numerous church towers and domes. Distinctive coloring comes from the *azulejos,* the blue tiles which adorn everything from church domes to roofs of the carnation booths in the flower market. Faded awnings give mellow color and shade to the balconies on virtually every house, and to the open bazaarlike shop fronts.

Temple, Mosque, and Cathedral on Same Site Show Course of History

Shopping in Valencia leads to whole streets of small stores, each draping its front with an oriental profusion of shawls, *mantillas,* lengths of locally woven linens and silks. Fans, a medieval elegance still decorating modern costumes, are a local specialty. All business, however, stops for the midday *siesta;* this unusual period of quiet in bright daylight gives Valencia a dreamlike quality.

Either the color or the dream has nourished in the city a famous art group, illustrious in the Renaissance and augmented by the late Sorolla, a native son who showed the world that shadows in Valencian sunlight could be purple or crimson

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Photograph by Flandrin

A MODERN CITY WITH A MEDIEVAL SKYLINE IS VALENCIA

Today's structures reach no great heights to overshadow old Valencia's mosque domes and church towers, such as el Miguelete, octagonal fifteenth century bell tower of the cathedral (above and right of center). The Turia River shows three of its seven bridges on the north. The street branching from the center of the picture to the right shows the famous Silk Exchange, with square tower and battlemented roof, as the largest building on its north side, and the framework of the now completed market building across the way (see Bulletin No. 1).

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Is the Handshake Vanishing?

IS THE handshake to become extinct? According to news reports doctors are frowning upon it as a germ-spreader and promoter of epidemics of colds, and certain European nations are banning it in favor of salutes.

Substitutes for the handshake are already in use by a sizable portion of the earth's population. Inhabitants of bleak Tierra del Fuego welcome the rare strangers who come there with a bear-hug and a back-patting, meanwhile jumping up and down. An African west coast negro, on greeting a friend, may fling himself to his knees and kiss the ground three times. Frenchmen kiss each other on both cheeks. Israelites of old bowed themselves to the ground seven times.

Andaman Islanders blow into one another's hands with a cooing sound. Indians on the Gulf of Mexico blow into each other's ears. Africans of the French colony of Dahomey twist their finger knuckles until they emit a loud crack. Eskimos rub noses. They are bewildered when they see a handclasp, assuming it to signify that when your right hand grows tired your friends help you hold it.

Chinese Shakes His Own Hands

Yet handshaking in many forms is an old and honorable custom. To join hands in antiquity was equivalent to signing a peace treaty, with the advantage that it left no scraps of paper to be torn up.

Early Greeks respected the right hand of fellowship, now preserved in many religious and fraternal organizations. A handclasp is introduced into the marriage ceremony among the Hindus and sometimes among Christians. Always, however, it precedes a prize fight. A Chinese, to show how pleased he is to encounter you, shakes his own hands. In the Banks Islands of the Pacific, a man hooks the middle finger of his right hand with yours and pulls it away with a crack.

The strange white Ainu people of Japan make you welcome by rubbing their own palms together and stroking their beards. A Mohammedan, according to ancient custom, may shake hands with you with thumbs up, then touch his breast, forehead, and lips with his hand to signify that you are cherished in his heart and thoughts and are entitled to a bit of osculation.

The military salute is said to have originated, like the handshake, as a formal declaration of one's innocence of any hostile intention. Whether vertical or horizontal, whether just two fingers or a whole handful, the salute is a baring of the weapon hand to show that no spears, javelins, daggers, pistols, or machine guns are concealed therein.

Tipping Hat Is Sign of Trust

Uncovering the head is another way to show that one is friendly and among friends, and not afraid of getting one's skull cracked. Medieval armored knights lowered their visors to leave their faces unprotected while with their colleagues, or even removed all hardware from their heads. Several centuries later, young gallants elevated "uncovering" to the status of a flourishing sport, when doffing ornate hats with much plume waving, ribbon fluttering, and bowing from the waist. More or less grudging reference is made to that elegant gesture by the current manly practice of touching a forefinger in gingerly fashion to the hat brim by way of salutation, or the custom of "tipping" the hat entirely off the head.

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instead of the usual black. Examples of local painting contribute to making the Provincial Museum almost as famous as the Prado in Madrid.

Chief landmark is the old cathedral, once a Moorish mosque built on the site of an ancient Roman temple to Diana. Ornate with alabastar, jasper, pink marble, and bronze, its beauty suffered in a fire started when a ceremonial pigeon became frightened at its burden of burning cotton. Treasures include such ancient trophies as the armor of James I of Aragon, who snatched the city from the Moors; a chain once hung across the harbor of Marseilles; and a jewelled chalice of agate and gold, the Spanish version of the Holy Grail.

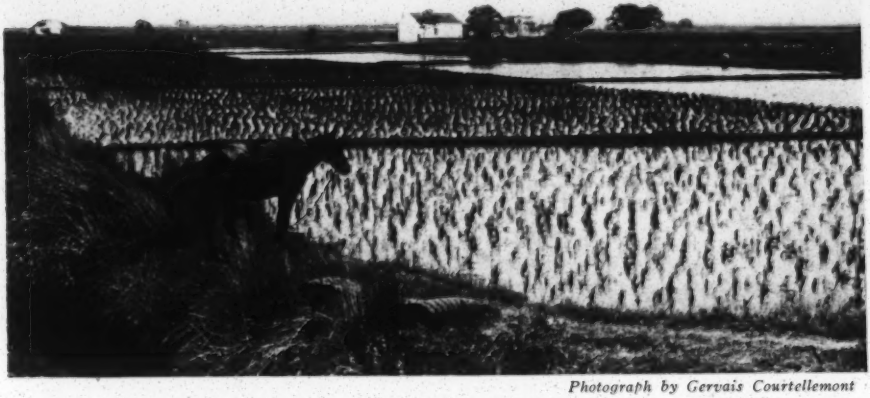
City of the Cid Had First Spanish Printing Press

The Middle Ages survive in other structures (see illustration, page 2), but enlightenment has, too, a monument in Valencia: a simple tablet on a house in the Calle del Portal Valldigna marks the location of the first printing press in Spain, and the University Library preserves a copy of *Les Trobes,* first book printed there, in 1474.

Perhaps the most famous legend of Valencia is that of the Cid, valiant hero who held the city against the Moors until his death, and of his widow who led the defense two years longer.

Note: Background material about Spain and the region around Valencia may be found in the *National Geographic Magazine* for February, 1937, in "We Escaped from Madrid"; also "Turbulent Spain," October, 1936; "Palette from Spain," March, 1936; "Montserrat, Spain's Mountain Shrine," January, 1933; "Madrid Out-of-Doors," August, 1931; "Pursuing Spanish Bypaths Northwest of Madrid," January, 1931; Seville, More Spanish Than Spain," "On the Bypaths of Spain," and "Barcelona, Pride of the Catalans," March, 1929; and "From Granada to Gibraltar," August, 1924.

Bulletin No. 1, February 8, 1937.



Photograph by Gervais Courtellemont

VALENCIA PROVES THAT NOT ALL THE RICE IS GROWN IN CHINA

The favorite food of southern China makes southern Spain turn green—with rice, not with envy. Rice paddies for miles around Valencia are flooded from silver threads of irrigation channels, then turn a yellowish green as the rice shoots up and ripens. The thatched cabins, or *barracas,* inspired a native Valencian's vivid novel—"La Barraca," which Vicente Blasco Ibañez wrote before he gained wider fame with "The Four Horsemen of the Apocalypse." The Moors developed this irrigation system, and established also the unwritten law which governs it: irrigation sluices to be opened or closed at a bell signal from the city; any offenders to be tried before a Valencian court, the Tribunal of the Waters.

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More Sky-Scaling at Mount Chimborazo

A PEAK to look up to with awe was Mount Chimborazo. Now, however, it has been looked down upon—with equal awe.

Two planes last month zoomed over its summit, the highest peak in Ecuador, where the Andes form a "seam of volcanoes" down the western shoulder of South America. This first flight over Mount Chimborazo brought back the first face-to-face photographs of its lofty double dome, which rises about 20,700 feet above sea level (see illustration, end of Index).

A century and a quarter ago Chimborazo was the highest mountain then known in the world. When knowledge of the Himalayas threw it into the shade, it was still acclaimed as the very tiptop of both Americas. Now Aconcagua, of Chile, claims that exalted title, and a half-dozen other Andean giants are known to outsoar Ecuador's highest pinnacle.

As Close to Heaven as Man Could Get in Early Nineteenth Century

In those pre-stratosphere-balloon days, it represented the highest altitude climbed by man. To measure their skill on the mammoth yardstick of Mount Chimborazo, mountain climbers came from Europe by sailboat and mule-train, and imported their own Alpine guides. Von Humboldt, making the first official climb, was stopped somewhat short of the top, but reached 19,000 feet—man's farthest aloft in 1802. Bolivar, who led South America's fight for independence to victory, could not fight his way to Chimborazo's peak. The summit was not attained until 1880.

Von Humboldt's report that condors could fly over the snowbound peak was branded as fantastic. The notion that men, too, might soar above it would have been called insane.

A hundred miles inland from Ecuador's leading seaport, Guayaquil (see map, next page), Mount Chimborazo in clear weather bulks large on the horizon, even from the sea. It rises above steaming jungles of banana trees and palms to such heights that almost a fourth of it is covered with perpetual snow. Out of respect for its white head, the Indians named it Chimpurazu, "Mountain of Snow."

But "Mountain of Fire," according to geologists, would be more accurate. For Chimborazo is classified as an inactive volcano, hiding a fiery heart under its eternal ice cap. Its double top does not exhibit a crater, but volcanic rock and débris below the snow line point to the mountain's snowed-under secret of a violent disposition.

Local Volcanoes Hold Some World Records

Volcanoes in this region are just an old Andean custom, for Ecuador has numbers which wear plumes of smoke in their snow caps. One of the nearest neighbors is Cotopaxi, world's highest active volcano. About 30 miles southeast is Mount Sangay, one of the world's most constantly eruptive volcanoes. It translates perpetual motion into the volcanic language, with frequent discharges and explosions which now scarcely disturb the natives.

Deposits of sulphur on Mount Chimborazo's slopes supply work for the natives and additional evidence of volcanic nature for geologists.

Because of its great height this mountain served as the scene of a series of

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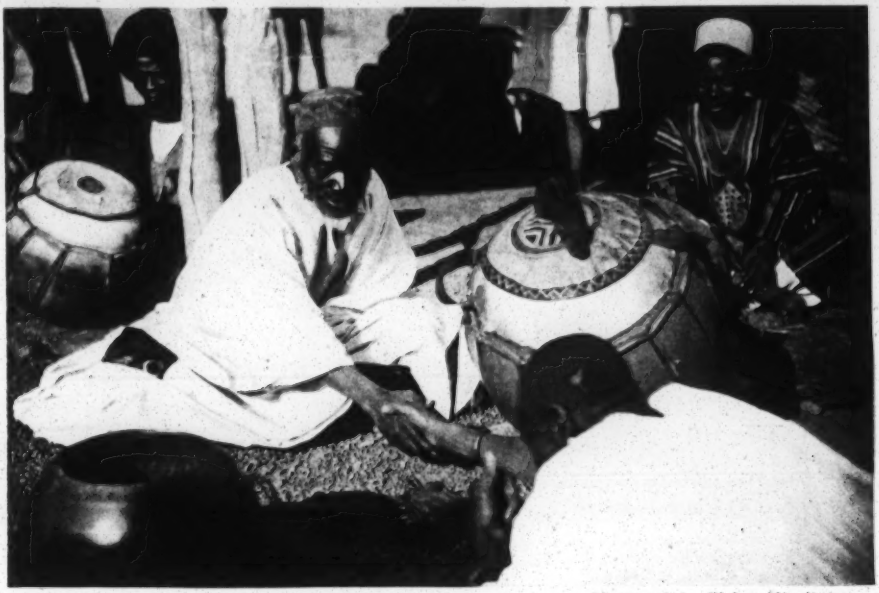
Such uncovering out of respect, which originally meant disarming before friends or superiors, led Tahitians to strip themselves to the waist in the presence of their king. The same impulse which prompts a westerner to remove his hat leads Orientals to remove their shoes, and off come sandals or slippers upon entering homes and public buildings.

Sniffing or Nose-rubbing as Greeting

It is among men that the majority of set greetings have been prescribed, since centuries of confinement to the home delayed a code for women. Their usual greeting has been the kiss. That custom was particularly popular between men of the ancient Persians, Biblical Jews, and early Christians. It is still to be observed when Greek meets Greek, or Latin meets Latin.

In Samoa a kiss is a sniff. Sniffing is said to have created the practice of rubbing noses among the Polynesians, Malays, and Eskimos. Among the Lapps, nose-rubbing has been discarded since contact with civilization, and now two men greet by placing one hand on the other's shoulder in a half-hug. Missionaries have sponsored the handshake as a substitute for such native salutations as crouching and weeping; motion pictures are said to be doing similar missionary work for the practice of kissing.

Note: How the handshake is used to close a business deal among the Bedouins is shown by a picture in "Bedouin Life in Bible Lands," in the January, 1937, *National Geographic Magazine*. Touching foreheads as a greeting and other unusual customs are depicted in the same article. See also "Guatemala Interlude," October, 1936.



Photograph by Walter Mittelholzer

WHEN GOOD FELLOWS GET TOGETHER, A HANDSHAKE ENSUES

The handshake, now neglected by some European nations, is a salutation very much in use among the Mossi natives in French West Africa. They accompany their handclasp greeting with a ceremony of flopping on the ground and beating their forearms thrice against the earth. The younger one may bow his forehead to the dust. Bowing exists in a hasty version in the modern friendly nod. Instead of the deep bow, an Egyptian greeting substitutes breathing on the ground. Arabians bow symbolically by touching a finger to the ground, then putting it to lips or forehead.

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experiments on gravitation, to measure the earth's pull. The top is frequently above the clouds, and invisible. In clear weather, however, when the sun is shining, the snow-clad slopes glisten dazzlingly, and, in the evening, reflect all the rainbow colors or the golden glow of the sunset.

Chimborazo's human neighbors are mostly Indians, some of whom are descendants of the Incas, and Spaniards. The Indian farmers are apparently contented in their adobe thatched-roofed houses, surrounded by patches of cabbages and potatoes or small orchards and grain fields; they have changed little since Spanish conquistadores toiled up and down the flank of South America on gold-hunting expeditions. Descendants of Spanish settlers there prefer stucco houses topped with red tiles.

The Indians and Spaniards are a hospitable people, but not many miles to the east of the Andes are jungles where the native Jivaros still are proud of their art in shrinking human heads to the size of an orange with hair and skin intact. With a blow gun charged with a poison arrow, the Jivaro has been known to kill the husband of a woman he wants for his wife, and to treasure the victim's head after it has gone through the shrinking process.

Note: Additional references to Ecuador may be found in the following: "Mrs. Robinson Crusoe in Ecuador," *National Geographic Magazine*, February, 1934; "Flying the World's Longest Air-Mail Route," March, 1930; "Volcanoes of Ecuador, Guideposts in Crossing South America," January, 1929; and "Over Trail and Through Jungle in Ecuador," October, 1921.

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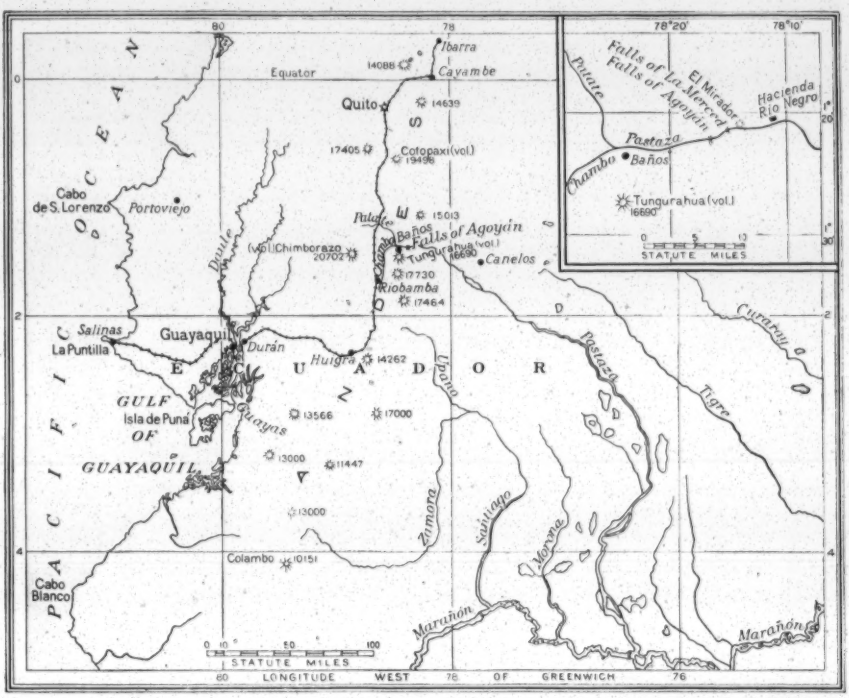

Drawn by A. E. Holdstock

GIANTS OF THE ANDES GIVE ECUADOR A DOUBLE ROW OF ASTERISKS

Mount Chimborazo tops all the peaks fencing in the Ecuadorian highlands, where stands Quito, the capital. Many of the mountains are volcanic, as "vol." after their names indicates. The railroad which joins Guayaquil, leading coastal city, with Quito skirts the lower slopes of Mount Chimborazo, and stops for the night at Riobamba nearby. The inset map shows the location of *Hacienda Rio Negro*, the home of an American couple in the Ecuadorian wilderness, described in the *National Geographic Magazine* for February, 1934.

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Boats and Ships: Strange Devices Salvage Ships from the Sea, Mar. 23, 1936.
Dirge for a Windjammer, 2 ills., May 18, 1936.
Hankow on the Yangtze Like St. Louis on the Mississippi, Oct. 19, 1936.
Additional ills.: Loading Train on Boat, Hamburg, Feb. 24, 1936; Boats, Hobart Harbor, Tasmania, Feb. 24, 1936; Hong Kong-Macau Steamer, Mar. 16, 1936; Boats, Persian Gulf, Mar. 16, 1936; Ship in Locks, Panama Canal, Mar. 23, 1936; *Empress of Canada*, Vancouver Harbor, Mar. 30, 1936; Bosporus Steamer, May 4, 1936; Boats, Singapore Harbor, May 11, 1936; Presidential Ship, May 11, 1936; Ship and Boats, New York Harbor, Oct. 26, 1936; Eskimo *Umiak*, Greenland, Oct. 26, 1936; North Sea Fishing Boat, Nov. 16, 1936; Reproduction of Old War Galley, Malta, Nov. 23, 1936; Gondolas, Venice, Italy, Nov. 30, 1936; Boats, Sark Harbor, Nov. 30, 1936; Ferries, San Francisco Bay, Nov. 30, 1936; Barges, Hamburg, Germany, Jan. 25, 1937.
Bridges: San Francisco and Oakland Joined by Bay Bridge, Nov. 30, 1936.
Additional ills.: River Bridges, Pittsburgh, Apr. 6, 1936; Lincoln Highway Bridge, Pennsylvania, Apr. 6, 1936; Triborough and Hell Gate Bridges, New York, Jan. 25, 1937; River Bridges, Valencia, Spain, Feb. 8, 1937.
Canals: Ills.: Gatun Locks, Panama Canal, Mar. 23, 1936; Elbe-Havel, Hamburg, Germany, Jan. 25, 1937.
Chairs: Ill.: Chair Transport, Sumatra, Oct. 19, 1936.
Domestic Animals: Ills.: Dog Towing Bicycle Wagon, Japan, Oct. 12, 1936; Donkeys and Oxen, Burgos, Spain, Dec. 21, 1936; Horse Carrying Balsam Cases, El Salvador, Jan. 11, 1937; Mules Hauling Cork, Spain, Feb. 1, 1937.
Elevators: New York's Vertical Travel Exceeds the Horizontal, Mar. 23, 1936.
Highways and Roads: Highways Recover from Ice Crystals' Annual Attack, Apr. 20, 1936.
Another Gap Closed on the Highroad to Buenos Aires, Oct. 5, 1936.
Mountain Climbing on Wheels in Shenandoah National Park, Oct. 12, 1936.
Roads Try on New Topcoats of Cotton, Salt, Iron, Rubber, and Molasses, Dec. 7, 1936.
End of the Trail for Borax's Twenty-Mule Team, Jan. 4, 1937.
Pennsylvania Avenue, The Inaugural Path of Presidents, 2 ills., Jan. 18, 1937.
Additional ills.: Lincoln Highway, Western Pennsylvania, Apr. 6, 1936; Mountain Highway, Colorado, Oct. 19, 1936; Highway Traffic Signs, Arundel, England, Nov. 2, 1936; Traffic on Triborough Bridge, New York, Jan. 25, 1937.
Mail: Through the Mails with the Christmas Cards, Dec. 7, 1936.
Rafts: Ill.: Papyrus-Reed Raft, Lake Tana, Ethiopia, Apr. 27, 1936.
Railroads: French Indo-China, Land of Jungles and Sidewalk Cafes, 2 ills., Nov. 16, 1936.
Additional ills.: Railways, Chicago, Mar. 2, 1936; Railways, Western Pennsylvania, Apr. 6, 1936.
Sleighs: Ill.: Siberian Children on Sleigh, Mar. 16, 1936.
Trains: Riding the Rails on a Streamliner, Nov. 16, 1936.
Additional ills.: Shipping a Train, Hamburg, Germany, Feb. 24, 1936; New England Ski Train, Jan. 25, 1937.
Vehicles: Ills.: Bicycle Wagon, Japan, Oct. 12, 1936; Donkey Cart, London, Nov. 23, 1936; Ox Carts, Burgos, Spain, Dec. 21, 1936; Lord Mayor's Coach-and-Six, London, Jan. 4, 1937; Wagon Hauling Cork, Spain, Feb. 1, 1937.

COMMERCE AND INDUSTRY

General: Hobbies and Hard Work in Finland, Nov. 16, 1936.
Buenos Aires, City of Superlatives, Nov. 30, 1936.
Americans of Two Continents Get Together, Jan. 4, 1937.
Málaga, with a Climate for Loafing but an Eye for Business, Jan. 25, 1937.
Outstanding Engineering Accomplishments of 1936, 2 ills., Jan. 25, 1937.
Nagoya, Japan's Number Three City, 2 ills., Feb. 1, 1937.
Agriculture: These Little Grains Went to Market, 2 ills., Nov. 16, 1936.
Salvador's San Vicente Shaken Up Again, Jan. 11, 1937.
Additional ills.: Vineyard, Germany, Mar. 30, 1936; Basque Farmers, Spain, Oct. 5, 1936; Rice Farming, Indo-China, Nov. 16, 1936; Farming in Egyptian Delta, Dec. 7, 1936; Coffee Plantation, Kenya Colony, Jan. 11, 1937; Rice Paddies, Valencia, Spain, Feb. 8, 1937.
Balsam of Peru: Ill.: Transportation of Balsam of Peru, El Salvador, Jan. 11, 1937.
Bazaars: Ills.: Jewelry in Afghan Bazaar, Apr. 27, 1936; Natives at Bazaar, Herat, Afghanistan, Apr. 27, 1936.

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Spain:— Málaga, with a Climate for Loafing but an Eye for Business, Jan. 25, 1937.
Continued Cádiz, Spain's Mystery Port Since Europe's Dawn, Feb. 1, 1937.
Valencia, Now Spain's "Spare" Capital, 2 ills., Feb. 8, 1937.
Switzerland: Switzerland To Tell of William Tell All Summer, May 4, 1936.
The Matterhorn, A Mountain Needle Lost in a Cloud-Stack, Dec. 14, 1936.
Additional ill.: Skiing in the Alps, Jan. 25, 1937.
Yugoslavia: Yugoslavia's Jigsaw Puzzle Coast, Nov. 9, 1936.

POLAR REGIONS

General: Charcot's Death Closes a Chapter in Exploration, Oct. 12, 1936.
Arctic: Musk Oxen, Vanishing Cattle of the Arctic, Mar. 2, 1936.
Larger Size Claimed for Wrangel Island, 1 map, Jan. 18, 1937.
Antarctic: Ellsworth Awarded Hubbard Medal for Polar Exploration, May 4, 1936.
Additional ills.: Collecting Air Data, Byrd Expedition, May 18, 1936; Warming Motor of Ellsworth's Plane, Jan. 18, 1937.
Greenland: Ills.: Icebergs and Glaciers, Scoresby Sound, Oct. 12, 1936; Greenland Eskimos in *Umiak*, Oct. 26, 1936.

NORTH AMERICA

General: Putting "America" on the Map, 1 map, Oct. 19, 1936.
Americans of Two Continents Get Together, Jan. 4, 1937.
Alaska: Fog-Shrouded Aleutian Isles Suggested as "Devil's Island," Apr. 6, 1936.
Alaska, U. S. S. R., and Bering Sea, Scenes of N. G. S. Expeditions, Oct. 5, 1936.
Expedition Finds Relics of Eskimos Who Wore Armor, 2 ills., Oct. 26, 1936.
Rock Slide Buries Part of Juneau, Alaska's Capital, 2 ills., Dec. 14, 1936.
Canada: Vancouver, the Young Lady Who Lives in a Shoe, Mar. 30, 1936.
Draegermen, and Others Who Save Lives Underground, May 11, 1936.
Ste. Anne de Beaupré, Canadian Mecca on the St. Lawrence, Nov. 9, 1936.
Christmas Is Permanently on the Map, Dec. 21, 1936.
Canada's Land of the Caribou-Eaters, Jan. 11, 1937.
Additional ill.: Bradford Washburn with Yukon Plane, Jan. 18, 1937.
Mexico: Acapulco, Mexico's Rip van Winkle Port, Wakes Up, Mar. 9, 1936.
Dead City of Monte Albán a Live Issue Again, 2 ills., Apr. 20, 1936.
Another Gap Closed on the Highroad to Buenos Aires, Oct. 5, 1936.
Rio Grande, Our Wandering Boundary River, Has New Attractions, 2 ills., Dec. 14, 1936.
Additional ill.: Oil Well, Mar. 9, 1936.

UNITED STATES

General: Uncle Sam Signs New Lease with Landlord Panama, 2 ills., Mar. 23, 1936.
"Private" Flags of Public Officials, May 11, 1936.
Draegermen, and Others Who Save Lives Underground, May 11, 1936.
The Ballot, Arbiter of American Leadership, Nov. 2, 1936.
Through the Mails with the Christmas Cards, Dec. 7, 1936.
Christmas Is Permanently on the Map, Dec. 21, 1936.
A Winter World Skids By on Skis, 2 ills., Jan. 25, 1937.
Arizona: World's Largest Man-Made Lake a Boulder Dam By-Product, Mar. 16, 1936.
California: Red Men and White in Yosemite Valley, 2 ills., Mar. 23, 1936.
A Safe Haven at Last for the Joshua Tree, Oct. 26, 1936.
San Francisco and Oakland Joined by Bay Bridge, Nov. 30, 1936.
End of the Trail for Borax's Twenty-Mule Team, Jan. 4, 1937.
Additional ill.: Desert with Plank Road, Dec. 7, 1936.
Colorado: Colorado's "Unclaimed" Heart, Oct. 19, 1936.
District of Columbia: Many Changes Greet Spring Visitors to National Capital, Apr. 20, 1936.
Pennsylvania Avenue, The Inaugural Path of Presidents, 2 ills., Jan. 18, 1937.
Additional ills.: Study of Spores, Department of Agriculture, Feb. 24, 1936; Easter Egg-Rolling at White House, Apr. 6, 1936; Stone Sculpture, Commerce Building, Apr. 20, 1936; Washington Cathedral, Apr. 27, 1936; Meridian Hill Park, May 18, 1936.
Illinois: Time Marches West, 2 ills., Mar. 2, 1936.
Additional ill.: Railroad Yard, Chicago, Nov. 16, 1936.
Indiana: Christmas Is Permanently on the Map, Dec. 21, 1936.
Louisiana: Ill.: Grain Elevators, New Orleans, Nov. 16, 1936.
Maryland: Flood Area a Region of Narrow, Crowded Valleys, 2 ills., Apr. 6, 1936.
Additional ills.: Sundial, Druid Hill Park, Baltimore, Mar. 2, 1936; Highway U. S. 40 Near Grantsville, Apr. 20, 1936.
Michigan: Mackinac Island, Where "Horse and Buggy Days" Prevail, Dec. 14, 1936.
Minnesota: Ills.: Stone-cutting Saw, St. Cloud, Feb. 24, 1936; Farm Near Little Fork, Dec. 7, 1936.
Mississippi: Vicksburg Relives Its Historic Past, Apr. 27, 1936.
Nevada: World's Largest Man-Made Lake a Boulder Dam By-Product, Mar. 16, 1936.
New Jersey: Newark Marks Centennial as a City, May 11, 1936.
Birthday Candles for the Lady of the Torch, 2 ills., Oct. 26, 1936.
Additional ill.: Dirigibles in Hangar, Lakehurst, May 4, 1936.
New Mexico: Rio Grande, Our Wandering Boundary River, Has New Attractions, 2 ills., Dec. 14, 1936.
New York: New York's New Free Port—and Some Others, 2 ills., Feb. 24, 1936.
New York's Vertical Travel Exceeds the Horizontal, Mar. 23, 1936.
Syracuse, New York, Outgrows Obstacles, Nov. 2, 1936.
Additional ills.: Dog Show, Mar. 9, 1936; Triborough and Hell Gate Bridges, Jan. 25, 1937.
North Carolina: Orchids, Snowy Peaks, and Picturesque Mountaineers in the Great Smokies, Dec. 7, 1936.
Cape Hatteras Beacon Becomes an "Interior" Lighthouse, Jan. 11, 1937.
Oregon: Portland, Oregon, Host to the N. E. A., May 18, 1936.
Pennsylvania: Flood Area a Region of Narrow, Crowded Valleys, 2 ills., Apr. 6, 1936.
South Dakota: Ill.: Stratosphere Balloon over Bad Lands, Nov. 23, 1936.
Tennessee: Orchids, Snowy Peaks, and Picturesque Mountaineers in the Great Smokies, Dec. 7, 1936.
Texas: Texas Remembers the Alamo, 2 ills., Mar. 2, 1936.
Rio Grande, Our Wandering Boundary River, Has New Attractions, 2 ills., Dec. 14, 1936.
Virginia: Mountain Climbing on Wheels in Shenandoah National Park, Oct. 12, 1936.
Washington: Ill.: Wheat Ranch, Nov. 16, 1936.

CENTRAL AMERICA

General: Another Gap Closed on the Highroad to Buenos Aires, Oct. 5, 1936.
El Salvador: Salvador's San Vicente Shaken Up Again, Jan. 11, 1937.
Guatemala: Guatemala City Fiesta To Bring Out Gay Indian Garb, 3 ills., Nov. 9, 1936.
Panama: Uncle Sam Signs New Lease with Landlord Panama, 2 ills., Mar. 23, 1936.
Bushmaster Bagged by Young Snake-Snarers in Panama, Oct. 19, 1936.

SOUTH AMERICA

General: Falkland Islands, Great Britain's "Postage Stamp" Colony, 1 map, Feb. 24, 1936.
Another Gap Closed on the Highroad to Buenos Aires, Oct. 5, 1936.
Putting "America" on the Map, 1 map, Oct. 19, 1936.
Christmas Is Permanently on the Map, Dec. 21, 1936.
Americans of Two Continents Get Together, Jan. 4, 1937.

Education: Portland, Oregon, Host to the N. E. A., May 18, 1936.
Additional ills.: Robert College, Turkey, May 4, 1936; Outdoor Class, Málaga, Spain, Jan. 25, 1937.
Edward VIII: Trooping the Color for the King's Birthday, May 18, 1936.
Kings Come and Go, But English Pageantry Goes On Forever, 2 ills., Jan. 4, 1937.
Ellsworth, Lincoln: See *Expeditions and Exploration.*
Eskimos: Expedition Finds Relics of Eskimos Who Wore Armor, 2 ills., Oct. 26, 1936.
Additional ill.: Basket Weavers, Aleutian Islands, Apr. 6, 1936.
Expeditions and Exploration: Easter Island Baffles More Expeditions, Mar. 9, 1936.
Expedition Leaves for Siberia to See the Sun's Eclipse, Apr. 27, 1936.
Ellsworth Awarded Hubbard Medal for Polar Exploration, May 4, 1936.
Alaska, U. S. S. R., and Bering Sea, Scenes of N. G. S. Expeditions, Oct. 5, 1936.
Charcot's Death Closes a Chapter in Exploration, Oct. 12, 1936.
Expedition Finds Relics of Eskimos Who Wore Armor, 2 ills., Oct. 26, 1936.
One Hundred Years and Two Million Patents, Nov. 23, 1936.
Expedition to Collect Animals in Sumatra for Washington Zoo, Dec. 14, 1936.
Explorers of 1936 Scaled Mountains, Roved Seas, and Penetrated Jungles, 2 ills., Jan. 18, 1937.
Animal Collectors Also to Carry American Beasts to Oriental Zoos, 2 ills., Feb. 1, 1937.
Additional ills.: Members of Mount Brukkaros Expedition, South-West Africa, May 18, 1936; Collecting Air Data, Byrd Antarctic Expedition, May 18, 1936.
Fairs and Exhibitions: Fairs Put the World in a Showcase, Nov. 9, 1936.
Additional ills.: Dog Show, New York, Mar. 9, 1936; Rag Fair, Madrid, Spain, Nov. 23, 1936.
Flags: "Private" Flags of Public Officials, May 11, 1936.
Forts and Fortresses: Texas Remembers the Alamo, 2 ills., Mar. 2, 1936.
Toledo's Alcázar a Casualty in Spain's Civil Strife, Oct. 12, 1936.
North Sea Storm Attacks Helgoland, Germany's Island Fortress, Nov. 16, 1936.
Malta, Potent Pebble Off the Mediterranean Shores, 2 ills., Nov. 23, 1936.
Mackinac Island, Where "Horse and Buggy Days" Prevail, Dec. 14, 1936.
Additional ills.: San Diego Fort, Mar. 9, 1936; Rumeli Hissar, Turkey, May 4, 1936; Castle-Fortress, Nagoya, Japan, Feb. 1, 1937.
Government: Uncle Sam Signs New Lease with Landlord Panama, 2 ills., Mar. 23, 1936.
Afghanistan Turns West—But Not Western, 3 ills., Apr. 27, 1936.
Colorado's "Unclaimed" Heart, Oct. 19, 1936.
Peace Again in Palestine, Mixing but Not Melting Pot, 3 ills., Nov. 2, 1936.
The Ballot, Arbiter of American Leadership, Nov. 2, 1936.
Egypt Lets Freedom Ring, 3 ills., Dec. 7, 1936.
Through the Mails with the Christmas Cards, Dec. 7, 1936.
Burgos, Rebel Headquarters in Northern Spain, Dec. 21, 1936.
Americans of Two Continents Get Together, Jan. 4, 1937.
Kings Come and Go, But English Pageantry Goes on Forever, 2 ills., Jan. 4, 1937.
Canberra, Australia's "Country Town" Capital, 3 ills., Jan. 11, 1937.
Government and Territorial Changes of 1936, Jan. 18, 1937.
Pennsylvania Avenue, The Inaugural Path of Presidents, 2 ills., Jan. 18, 1937.
Additional ills.: White House, Washington, D. C., Apr. 6, 1936; Flood Control Headquarters, Vicksburg, Mississippi, Apr. 27, 1936; Admiralty Building, London, May 18, 1936; Capitol, Buenos Aires, Argentina, Oct. 5, 1936; Government Buildings, Buenos Aires, Argentina, Nov. 30, 1936.
History: Falkland Islands, Great Britain's "Postage Stamp" Colony, 1 map, Feb. 24, 1936.
Texas Remembers the Alamo, 2 ills., Mar. 2, 1936.
Bath, City of Buns, Springs, and Roman Ruins, Mar. 23, 1936.
Vicksburg Relives Its Historic Past, Apr. 27, 1936.
Turkey's Straits Problem Needs Straightening Out Again, 2 ills., May 4, 1936.
Rouen, France, Rues the Day, May 18, 1936.
Toledo's Alcázar a Casualty in Spain's Civil Strife, Oct. 12, 1936.
Putting "America" on the Map, 1 map, Oct. 19, 1936.
Spain's Stormy History Recorded in Madrid's Prado Paintings, Oct. 26, 1936.
El Escorial, Where Spain Buried Her Past Royalty, Nov. 9, 1936.
To England, Ireland, Scotland, Wales—Add Berwick-upon-Tweed, 1 map, Nov. 23, 1936.
Sark, the Last Purely Feudal State in the World, Nov. 30, 1936.
Mackinac Island, Where "Horse and Buggy Days" Prevail, Dec. 14, 1936.
Burgos, Rebel Headquarters in Northern Spain, Dec. 21, 1936.
News of New Year's Arrival Among Tidings Told by Bells, Jan. 4, 1937.
Pennsylvania Avenue, The Inaugural Path of Presidents, 2 ills., Jan. 18, 1937.
Cádiz, Spain's Mystery Port Since Europe's Dawn, Feb. 1, 1937.
Hobbies: Hobbies and Hard Work in Finland, Nov. 16, 1936.
Tropical Toy Fishes Catch Fancy of Hobbyists, 2 ills., Feb. 1, 1937.
Holidays, Celebrations and Customs: Wearing of the Green Again on St. Patrick's Day, 3 ills., Mar. 16, 1936.
Easter Eggs, Symbols of Returning Spring, Apr. 6, 1936.
Trooping the Color for the King's Birthday, May 18, 1936.
Rouen, France, Rues the Day, May 18, 1936.
A London Thanksgiving, Where They "Say It With Pearl Buttons," Nov. 23, 1936.
Carols Mean "Merry Christmas" in Any Language, 3 ills., Dec. 21, 1936.
Christmas Is Permanently on the Map, Dec. 21, 1936.
News of New Year's Arrival Among Tidings Told by Bells, Jan. 4, 1937.
Is the Handshake Vanishing? Feb. 8, 1937.
Additional ills.: Fiesta, Texas Centennial, San Antonio, Mar. 2, 1936; Mine-Workers' Easter Festival, Bolivia, May 11, 1936; Flower Venders on London Holiday, Nov. 23, 1936; Drinking Tea, Japan, Feb. 1, 1937.
Houses: Ills.: Mongolian *Yurt*, Mar. 9, 1936; Interior, Åland Island Home, Mar. 30, 1936; Anne Hathaway's Cottage, Shottery, England, Apr. 20, 1936; Old House with Fire-mark Plaques, Philadelphia, Oct. 5, 1936; Home of El Greco, Toledo, Spain, Oct. 12, 1936; Waldseemüller Home, Freiburg, Germany, Oct. 19, 1936; Dwellings, Oberammergau, Germany, Dec. 21, 1936; Dwellings, Burgos, Spain, Dec. 21, 1936; Native Home, Shensi Province, China, Jan. 4, 1937; Governor-general's Residence, Canberra, Australia, Jan. 11, 1937; Interior of House, Nagoya, Japan, Feb. 1, 1937.
Indians: Red Men and White in Yosemite Valley, 2 ills., Mar. 23, 1936.
Syracuse, New York, Outgrows Obstacles, Nov. 2, 1936.
Guatemala City Fiesta To Bring Out Gay Indian Garb, 3 ills., Nov. 9, 1936.
Canada's Land of the Caribou-Eaters, Jan. 11, 1937.
More Sky-Scaling at Mount Chimborazo, 1 map, 3 ills., Feb. 8, 1937.
Inns: Ills.: Inn, Cobham, England, Apr. 6, 1936; Great White Horse Inn, Ipswich, England, Apr. 6, 1936.
Joan of Arc: Rouen, France, Rues the Day, May 18, 1936.
Language: European Language Barriers Lowered for American Travelers, Nov. 2, 1936.
Light Opera: Footlight Geography by Gilbert and Sullivan, 3 ills., Nov. 30, 1936.
Monasteries and Missions: Texas Remembers the Alamo, 2 ills., Mar. 2, 1936.
Montserrat, Spain's Monastery "White House," Nov. 30, 1936.
Museums: Kensington, Where London Honors Watt, Mar. 2, 1936.
Spain's Stormy History Recorded in Madrid's Prado Paintings, Oct. 26, 1936.
Additional ill.: Dickens Museum, Cobham, England, Apr. 6, 1936.
Music: Footlight Geography by Gilbert and Sullivan, 3 ills., Nov. 30, 1936.
Carols Mean "Merry Christmas" in Any Language, 3 ills., Dec. 21, 1936.
News of New Year's Arrival Among Tidings Told by Bells, Jan. 4, 1937.
Additional ills.: Tin-Can Music, Mombasa, Kenya Colony, May 11, 1936; Native Band, Bolivia,

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Borax: End of the Trail for Borax's Twenty-Mule Team, Jan. 4, 1937.
Bricks: Ill.: Bricks and Brick Plant, Tel Aviv, Palestine, Nov. 2, 1936.
Building and Construction: Ills.: Brick Manufacture, Tel Aviv, Palestine, Nov. 2, 1936; Building a Native Home, Shensi Province, China, Jan. 4, 1937.
Building Stone: Architects Scour the World for Building Stone, 2 ills., Feb. 24, 1936.
Caribou: Canada's Land of the Caribou-Eaters, Jan. 11, 1937.
Cattle and Sheep: Ills.: Mongolian Sheepfold, Mar. 9, 1936; Cattle, Ireland, Mar. 16, 1936; Sheep Flock, Egypt, Dec. 7, 1936.
Cheese: Ill.: Cheese Market, Edam, Netherlands, Oct. 19, 1936.
Coffee: Ills.: Preparing Coffee for Export, Harar, Ethiopia, Apr. 20, 1936; Workers on Coffee Plantation, Kenya Colony, Jan. 11, 1937.
Cork: Ill.: Hauling Cork, Spain, Feb. 1, 1937.
Dams: World's Largest Man-Made Lake a Boulder Dam By-Product, Mar. 16, 1936.
Fairs: Fairs Put the World in a Showcase, Nov. 9, 1936.
Fishing: Ills.: Fisherfolk, Sitges, Spain, May 4, 1936; Basque Fishermen, Spain, Oct. 5, 1936; North Sea Fishing Boat, Nov. 16, 1936; Lobster Pots, Sark, Nov. 30, 1936; Salmon Fishing, Alaska, Dec. 14, 1936.
Food: Ills.: Iguana, Panama, Mar. 23, 1936; Bread Loaves, Luxembourg, Apr. 6, 1936; Tea Party, Afghanistan, Apr. 27, 1936; Gauchos' Supper, Argentina, Jan. 4, 1937; Serving Tea, Japan, Feb. 1, 1937.
Fruit Raising: Ill.: Fruits, Afghanistan, Apr. 27, 1936.
Grain: These Little Grains Went to Market, 2 ills., Nov. 16, 1936.
Handicrafts: Hobbies and Hard Work in Finland, Nov. 16, 1936.
Additional ill.: Basket Weaving, Aleutian Islands, Apr. 6, 1936.
Insect Powder: Ill.: Drying Daisies for Insect Powder, Trogir, Yugoslavia, Nov. 9, 1936.
Irrigation: Ills.: Nile Barrages, Egypt, Dec. 7, 1936; Rice Fields, Valencia, Spain, Feb. 8, 1937.
Jewelry: Ill.: Jewelry, Afghanistan Bazaar, Apr. 27, 1936.
Lighthouses: Cape Hatteras Beacon Becomes an "Interior" Lighthouse, Jan. 11, 1937.
Machinery: Ill.: Stone-cutting Saw, Feb. 24, 1936.
Markets and Venders: Ills.: Open-air Market, Mainz, Germany, Mar. 30, 1936; Cheese Market, Edam, Netherlands, Oct. 19, 1936; Old Quetta Market, Baluchistan, Nov. 2, 1936; Indian Corn Vender, Guatemala, Nov. 9, 1936; Pottery Vender, Santiago Atitlán, Guatemala, Nov. 9, 1936; Attending a Rag Fair, Madrid, Spain, Nov. 23, 1936; Flower Venders, London, Nov. 23, 1936; Grain Market, Antioch, Syria, Jan. 25, 1937.
Mines and Mining: Draegermen, and Others Who Save Lives Underground, May 11, 1936.
Colorado's "Unclaimed" Heart, Oct. 19, 1936.
Oil: Where Does the World Get Its Oil? Mar. 9, 1936.
The Bahrein Islands Pour Forth Oil as Well as Pearls, Mar. 16, 1936.
Oranges: Ill.: Inspecting Jaffa Oranges, Palestine, Nov. 2, 1936.
Paper: Ill.: Loading Paper on Ship, Vancouver, Mar. 30, 1936.
Paraguay Tea: Ill.: Gaucho Drinking *Maté*, Argentina, Jan. 4, 1937.
Patents: One Hundred Years and Two Million Patents, Nov. 23, 1936.
Pearls: The Bahrein Islands Pour Forth Oil as Well as Pearls, Mar. 16, 1936.
Ports and Harbors: New York's New Free Port—and Some Others, 2 ills., Feb. 24, 1936.
Acapulco, Mexico's Rip van Winkle Port, Wakes Up, Mar. 9, 1936.
Macau (Macao), Portuguese Port of Happy Landings in China, Mar. 16, 1936.
Hankow on the Yangtze Like St. Louis on the Mississippi, Oct. 19, 1936.
Cádiz, Spain's Mystery Port Since Europe's Dawn, Feb. 1, 1937.
Additional ills.: Hobart, Tasmania, Feb. 24, 1936; Singapore, May 11, 1936; New York, Oct. 26, 1936; Sark, Nov. 30, 1936; Hamburg, Germany, Jan. 25, 1937.
Post Offices: Through the Mails with the Christmas Cards, Dec. 7, 1936.
Pottery: Ill.: Buying Pottery, Santiago Atitlan, Guatemala, Nov. 9, 1936.
Rice: Ills.: Rice Farming, Indo-China, Nov. 16, 1936; Irrigated Rice Fields, Valencia, Spain, Feb. 8, 1937.
Salt: Syracuse, New York, Outgrows Obstacles, Nov. 2, 1936.
Sorghum: Ill.: Sorghum Press, Great Smoky Mountains, Dec. 7, 1936.
Tin: "Tinny" Things Are not "Cheap" Things, 3 ills., May 11, 1936.
Wheat: Ills.: Wheat Ranch, Washington, Nov. 16, 1936; Grain Elevators, New Orleans, Nov. 16, 1936.
Wine: Ill.: Rhine Vineyard, Germany, Mar. 30, 1936.

HUMAN GEOGRAPHY

Archeology: Easter Island Baffles More Expeditions, Mar. 9, 1936.
Dead City of Monte Albán a Live Issue Again, 2 ills., Apr. 20, 1936.
Expedition Finds Relics of Eskimos Who Wore Armor, 2 ills., Oct. 26, 1936.
Architecture: Architects Scour the World for Building Stone, 2 ills., Feb. 24, 1936.
A New Cathedral Age Dawns, Apr. 27, 1936.
Quetta Will Defy Future Earthquakes with U. S.-Type Buildings, Nov. 2, 1936.
Additional ills.: The Alamo, San Antonio, Mar. 2, 1936; Char Minar, Hyderabad, India, Mar. 2, 1936; Skyscrapers, New York, Mar. 23, 1936; Roman Ruins and Cathedral, Bath, England, Mar. 23, 1936; Buildings, Mainz, Germany, Mar. 30, 1936; Municipal Building, Oaxaca, Mexico, Apr. 20, 1936; Capitol, Buenos Aires, Argentina, Oct. 5, 1936; Lichfield Cathedral, England, Oct. 12, 1936; New Government Buildings, Washington, D. C., Jan. 18, 1937; Department of Labor Building, Washington, D. C., Jan. 18, 1937; Castle, Nagoya, Japan, Feb. 1, 1937; Air View of Valencia, Spain, Feb. 1, 1937.
Art: Spain's Stormy History Recorded in Madrid's Prado Paintings, Oct. 26, 1936.
Additional ills.: Stone Sculpture, Commerce Building, Washington, D. C., Apr. 20, 1936; Home of El Greco, Toledo, Spain, Oct. 12, 1936; Library of El Escorial, Spain, Nov. 9, 1936; Painting Class, Japan, Nov. 30, 1936; Wall Decorations of Egyptian Tomb, Dec. 7, 1936; Carved Buddha, Shensi Province, China, Jan. 4, 1937.
Bells: News of New Year's Arrival Among Tidings Told by Bells, Jan. 4, 1937.
Castles and Palaces: El Escorial, Where Spain Buried Her Past Royalty, Nov. 9, 1936.
Additional ills.: Ruins of Ehrenfels Castle, Germany, Mar. 30, 1936; Genoese Castle on the Bosporus, May 4, 1936; Arundel Castle, England, Nov. 2, 1936; Doges' Palace, Venice, Italy, Nov. 30, 1936; Edinburgh Castle, Scotland, Jan. 25, 1937; Castle, Nagoya, Japan, Feb. 1, 1937.
Charcot, Jean-Baptiste: See *Expeditions and Exploration*.
Children: Ills.: Siberian, Mar. 16, 1936; Luxembourg, Apr. 6, 1936; Afghanistan, Apr. 27, 1936; Flood Refugee, Vicksburg, Mississippi, Apr. 27, 1936; Yap, Oct. 12, 1936; Malta, Nov. 23, 1936; Australia, Jan. 11, 1937; School Children, Málaga, Spain, Jan. 25, 1937; Indian, Ecuador, Feb. 8, 1937.
Churches, Cathedrals, and Mosques: A New Cathedral Age Dawns, Apr. 27, 1936.
Additional ills.: Char Minar, Hyderabad, India, Mar. 2, 1936; Cathedral, Downpatrick, Ireland, Mar. 16, 1936; Cathedral, Bath, England, Mar. 23, 1936; Church, Bingen on the Rhine, Mar. 30, 1936; Lichfield Cathedral, England, Oct. 12, 1936; Church, Oberammergau, Germany, Dec. 21, 1936; Cathedral, Burgos, Spain, Dec. 21, 1936.
Clothing and Costumes: Guatemala City Fiesta To Bring Out Gay Indian Garb, 3 ills., Nov. 9, 1936.
Additional ills.: Mexican Costumes, Mar. 2, 1936; Mongolian Nomad, Mar. 9, 1936; Shamrock Apron, Mar. 16, 1936; Children's Fur Garments, Siberia, Mar. 16, 1936; Afghanistan Merchants, Apr. 27, 1936; Native Dress, Herat, Afghanistan, Apr. 27, 1936; Uniforms, Horse Guards Parade, London, May 18, 1936; Basque Farmers and Fishermen, Spain, Oct. 5, 1936; Eskimo Women, Oct. 26, 1936; Modern Dress, Palestine, Nov. 2, 1936; Merchants, Quetta, Baluchistan, Nov. 2, 1936; Palm Leaf Hat, French Indo-China, Nov. 16, 1936; Finnish Dresses, Nov. 16, 1936; Scotch Plaids and Tam O'Shanters, Nov. 23, 1936; Spanish Shawls and Mantillas, Nov. 23, 1936; Maltese Headdress, Nov. 23, 1936; Pearl Button Costumes, London, Nov. 23, 1936; Warders of London Tower, Nov. 30, 1936; Japanese Kimonas, Nov. 30, 1936, and Feb. 1, 1937; Palm-leaf Sombreros, Brownsville, Texas, Dec. 14, 1936; Mongol Princess and Manchu Dress, Suiyuan Province, China, Dec. 21, 1936.

Chemistry: Ill.: Evaporating Brine for Chemical Products, Syracuse, New York, Nov. 2, 1936.
Drawings: An Eclipse, Apr. 27, 1936.
Engineering: San Francisco and Oakland Joined by Bay Bridge, Nov. 30, 1936.
Outstanding Engineering Accomplishments of 1936, 2 ills., Jan. 25, 1937.
Fire Prevention: "Fire! Fire!"—Can the Cry Die Down? Oct. 5, 1936.
Fish: Tropical Toy Fishes Catch Fancy of Hobbyists, 2 ills., Feb. 1, 1937.
Hospitalization: Ill.: Flood Refugee Hospital Tent, Vicksburg, Mississippi, Apr. 27, 1936.
Instruments, Apparatus, and Machinery: Draegermen, and Others Who Save Lives Underground, May 11, 1936.
Additional ills.: Microscope Study of Spores, Feb. 24, 1936; Air-measuring Instrument, Byrd Antarctic Expedition, May 18, 1936; Sightseeing With a Periscope, England, Jan. 4, 1937; Carillon Drum, Middelburg, Netherlands, Jan. 4, 1937.
Inventions: One Hundred Years and Two Million Patents, Nov. 23, 1936.
Mammals: Musk Oxen, Vanishing Cattle of the Arctic, Mar. 2, 1936.
The Sealyham Terrier, New Prince of Pups, Mar. 9, 1936.
Nature's Balance Often Is Easily Upset, 2 ills., Mar. 30, 1936.
Koala, The Living Teddy Bear of Australia, Dec. 7, 1936.
Expedition to Collect Animals in Sumatra for Washington Zoo, Dec. 14, 1936.
Kenya, Land of Menagerie Graveyards and Living Circuses, Jan. 11, 1937.
Animal Collectors Also to Carry American Beasts to Oriental Zoos, 2 ills., Feb. 1, 1937.
Additional ills.: Water Buffaloes, Indo-China, Nov. 16, 1936; Kangaroos, Australia, Jan. 11, 1937
Caribou Herd Swimming, Arctic Canada, Jan. 11, 1937; Ecuadorian Monkey, Feb. 8, 1937.
Meteorology: Was It Cold Enough for You? Mar. 16, 1936.
Where Does Our Weather Come from? 2 ills., May 18, 1936.
Observatory: Ill.: Observatory Site, Mount Brukkaros Expedition, South-West Africa, May 18, 1936.
Reptiles: Bushmaster Bagged by Young Snake-Snarers in Panama, Oct. 19, 1936.
Additional ill.: Iguana, Panama, Mar. 23, 1936.
Road Building: Roads Try on New Topcoats of Cotton, Salt, Iron, Rubber, and Molasses, Dec. 7, 1936.
Salvaging: Strange Devices Salvage Ships from the Sea, Mar. 23, 1936.
Stratosphere Flights: Spores Survive Rarefied Stratosphere Air, Feb. 24, 1936.
Additional ill.: Stratosphere Balloon, *Explorer II*, Nov. 23, 1936.
Time Reckoning: Time Marches West, 2 ills., Mar. 2, 1936.
Tractors: Ills.: Tractor Snowplow, Colorado, Oct. 19, 1936; Wheat Ranch, Washington, Nov. 16, 1936.
Trees: A Safe Haven at Last for the Joshua Tree, Oct. 26, 1936.
Additional ill.: Coconut Tree, Sumatra, Dec. 14, 1936.
Zoos: Expedition to Collect Animals in Sumatra for Washington Zoo, Dec. 14, 1936.
Animal Collectors Also to Carry American Beasts to Oriental Zoos, 2 ills., Feb. 1, 1937.

Photograph by Horgan

PERPETUAL SNOW OVER A VOLCANO AND UNDER THE EQUATOR

A photograph from a distance gives an idea of Mount Chimborazo's shape (compared to a lion in repose), with a snow cape over its double dome and shoulders, and foliage around its lower slopes. A pass over its eastern flank, about 14,000 feet above sea level, gives access to Ecuador's vast interior highlands (see Bulletin No. 3).

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Music:— May 11, 1936; Regimental Bands, London, May 18, 1936; Gaucho Playing Guitar, Argentina, Jan. 4, 1937; Native with Musical Drum, Douala, Cameroun, Jan. 18, 1937.
Continued
National Geographic Society: Spores Survive Rarefied Stratosphere Air, Feb. 24, 1936.
Expedition Leaves for Siberia To See the Sun's Eclipse, Apr. 27, 1936.
Ellsworth Awarded Hubbard Medal for Polar Exploration, May 4, 1936.
Where Does Our Weather Come From? 2 ills., May 18, 1936.
Alaska, U. S. S. R., and Bering Sea, Scenes of N. G. S. Expeditions, Oct. 5, 1936.
Expedition Finds Relics of Eskimos Who Wore Armor, 2 ills., Oct. 26, 1936.
Expedition to Collect Animals in Sumatra for Washington Zoo, Dec. 14, 1936.
New Pacific Map Reveals Secrets of "Islands Nobody Knows," 1 map, Dec. 21, 1936.
Explorers of 1936 Scaled Mountains, Roved Seas, and Penetrated Jungles, 2 ills., Jan. 18, 1937.
Animal Collectors Also to Carry American Beasts to Oriental Zoos, 2 ills., Feb. 1, 1937.
Additional ill.: Lobby of The Society's Headquarters, Feb. 24, 1936.
National Parks and Monuments: Red Men and White in Yosemite Valley, 2 ills., Mar. 23, 1936.
Mountain Climbing on Wheels in Shenandoah National Park, Oct. 12, 1936.
A Safe Haven at Last for the Joshua Tree, Oct. 26, 1936.
Orchids, Snowy Peaks, and Picturesque Mountaineers in the Great Smokies, Dec. 7, 1936.
Rio Grande, Our Wandering Boundary River, Has New Attractions, 2 ills., Dec. 14, 1936.
Police: Ill.: Anti-Pirate Guard, Hong Kong-Macau Steamer, Mar. 16, 1936.
Races and Tribes: Hobart, the Pulse of Tasmania, Feb. 24, 1936.
Canada's Land of the Caribou-Eaters, Jan. 11, 1937.
Additional ills.: Mongolian Nomad, Mar. 9, 1936; Aleutian Island Women, Apr. 6, 1936; Eskimo Women, Alaska, Oct. 26, 1936; Mongol Princess and Retainers, Suiyuan Province, China, Dec. 21 1936; Native of Douala, Cameroun, Jan. 18, 1937.
Religion: Ste. Anne de Beaupré, Canadian Mecca on the St. Lawrence, Nov. 9, 1936.
Montserrat, Spain's Monastery "White House," Nov. 30, 1936.
Additional ills.: Carved Buddha, China, Jan. 4, 1937; Minaret, Antioch, Syria, Jan. 25, 1937.
Resorts: Sitges—Playground of Spain's Catalonia, May 4, 1936.
St. Patrick: Wearing of the Green Again on St. Patrick's Day, 3 ills., Mar. 16, 1936.
Smithsonian Institution: Expedition Finds Relics of Eskimos Who Wore Armor, 2 ills., Oct. 26, 1936.
Expedition to Collect Animals in Sumatra for Washington Zoo, Dec. 14, 1936.
Animal Collectors Also to Carry American Beasts to Oriental Zoos, 2 ills., Feb. 1, 1937.
Sports: A Winter World Skids By on Skis, 2 ills., Jan. 25, 1937.
Statues and Memorials: Birthday Candles for the Lady of the Torch, 2 ills., Oct. 26, 1936.
Additional ills.: Peter Pan, Kensington Gardens, England, Mar. 2, 1936; Statue of St. Patrick, Ireland, Mar. 16, 1936; St. Patrick's Burial Place, Ireland, Mar. 16, 1936; Nelson Monument, London, May 18, 1936; Joan of Arc Statue, Washington, D. C., May 18, 1936; Father Marquette, Mackinac Island, Michigan, Dec. 14, 1936.
Tombs and Pyramids: El Escorial, Where Spain Buried Her Past Royalty, Nov. 9, 1936.
Additional ills.: Tomb No. 7, Monte Albán, Mexico, Apr. 20, 1936; Wall Decorations of Egyptian Tomb, Dec. 7, 1936; Great Pyramid, Giza, Egypt, Dec. 7, 1936.
Tourists: European Language Barriers Lowered for American Travelers, Nov. 2, 1936.
Voting: The Ballot, Arbiter of American Leadership, Nov. 2, 1936.
Watt, James: Kensington, Where London Honors Watt, Mar. 2, 1936.

PHYSICAL GEOGRAPHY

Avalanches: Loen Lake Again a Setting for Norwegian Tragedy, Oct. 5, 1936.
Rock Slide Buries Part of Juneau, Alaska's Capital, 2 ills., Dec. 14, 1936.
Buttes: Ill.: "The Temple," Boulder Lake, Mar. 16, 1936.
Deserts: Outer Mongolia Depends on the Weather, 2 ills., 1 map, Mar. 9, 1936.
World's Largest Man-Made Lake a Boulder Dam By-Product, Mar. 16, 1936.
A Safe Haven at Last for the Joshua Tree, Oct. 26, 1936.
Additional ill.: Plank Road Across Desert, California, Dec. 7, 1936.
Earthquakes: Quetta Will Defy Future Earthquakes With U. S.-Type Buildings, Nov. 2, 1936.
Salvador's San Vicente Shaken Up Again, Jan. 11, 1937.
Floods: Flood Area a Region of Narrow, Crowded Valleys, 2 ills., Apr. 6, 1936.
Loen Lake Again a Setting for Norwegian Tragedy, Oct. 5, 1936.
Additional ill.: Flood Refugee Camp, Vicksburg, Mississippi, Apr. 27, 1936.
Glaciers and Icebergs: Ills.: Glacier, Norway, Oct. 5, 1936; Glaciers and Icebergs, Greenland, Oct. 12, 1936.
Jungles: Ills.: Panama Jungle, Oct. 19, 1936; Oriental Jungle, Feb. 1, 1937.
Lakes: World's Largest Man-Made Lake a Boulder Dam By-Product, Mar. 16, 1936.
Lake Tana: Ethiopian Birthplace of the Blue Nile, Apr. 27, 1936.
Loen Lake Again a Setting for Norwegian Tragedy, Oct. 5, 1936.
Mountains: Mountain Climbing on Wheels in Shenandoah National Park, Oct. 12, 1936.
Asama-Yama, Japanese Chimney, Smokes Again, Oct. 26, 1936.
Montserrat, Spain's Monastery "White House," Nov. 30, 1936.
Orchids, Snowy Peaks, and Picturesque Mountaineers in the Great Smokies, Dec. 7, 1936.
The Matterhorn, A Mountain Needle Lost in a Cloud-Stack, Dec. 14, 1936.
More Sky-Scaling at Mount Chimborazo, 1 map, 3 ills., Feb. 8, 1937.
Additional ills.: Glacier Point, Yosemite Valley, Mar. 23, 1936; Mt. Glärnisch, Switzerland, May 4, 1936; Mt. Hood, Portland, Oregon, May 18, 1936; Mountains, Alaska, Dec. 14, 1936; Swiss Alps, Jan. 25, 1937.
Oceans: New Pacific Map Reveals Secrets of "Islands Nobody Knows," 1 map, Dec. 21, 1936.
Rivers: Arms and the Rhine, 3 ills., Mar. 30, 1936.
Hankow on the Yangtze Like St. Louis on the Mississippi, Oct. 19, 1936.
Rio Grande, Our Wandering Boundary River, Has New Attractions, 2 ills., Dec. 14, 1936.
Additional ills.: Chicago River, Mar. 2, 1936; Allegheny and Monongahela at Pittsburgh, Pennsylvania, Apr. 6, 1936; Avon River at Stratford, England, Apr. 20, 1936; The Nile, Egypt, Dec. 7, 1936; Elbe River at Hamburg, Germany, Jan. 25, 1937.
Sea Coasts: Yugoslavia's Jigsaw Puzzle Coast, Nov. 9, 1936.
Cape Hatteras Beacon Becomes an "Interior" Lighthouse, Jan. 11, 1937.
Additional ill.: Spanish Morocco, Feb. 1, 1937.
Storms: Ill.: North Sea Storm, Nov. 16, 1936.
Valleys: The Great Rift Valley—A "Crack" Across Eastern Africa, 1 map, Mar. 30, 1936.
Volcanoes: Asama-Yama, Japanese Chimney, Smokes Again, Oct. 26, 1936.
More Sky-Scaling at Mount Chimborazo, 1 map, 3 ills., Feb. 8, 1937.
Waterfalls: Ill.: Yosemite Falls, California, Mar. 23, 1936.

POPULAR SCIENCE

Aeronautics: Ills.: Dirigibles in Hangar, Lakehurst, New Jersey, May 4, 1936; Ellsworth's Antarctic Plane in Test Flight, May 4, 1936; Bradford Washburn's Yukon Plane, Jan. 18, 1937; *Polar Star*, Antarctica, Jan. 18, 1937.
Aquarium: Ill.: Tank for Tropical Fish, Feb. 1, 1937.
Astronomy: Expedition Leaves for Siberia to See the Sun's Eclipse, Apr. 27, 1936.
Alaska, U. S. S. R., and Bering Sea, Scenes of N. G. S. Expeditions, Oct. 5, 1936.
Additional ill.: Celestial Globe in El Escorial, Spain, Nov. 9, 1936.
Bacteriology: Spores Survive Rarefied Stratosphere Air, Feb. 24, 1936.
Birds: Nature's Balance Often Is Easily Upset, 2 ills., Mar. 30, 1936.
The Pileated Woodpecker, Who Grubs for Grubs for "Grub," May 11, 1936.
Additional ill.: Ecuadorian Parrot, Feb. 8, 1937.

Photograph by Richard C. Gill

CHIMBORAZO'S NEIGHBORS ARE PEACEFUL AND FRIENDLY

Robinson Crusoe fashions appeal to the Ecuadorian Indian father, for he attires himself with the least possible tailoring and barbering. The parrot, his only ornament, he turned over to the photographer. The young mother wears a sling, which is both baby carriage and overcoat for her infant. These South American Indians are possibly descendants of those whom Spanish *conquistadores* found dwelling near Mount Chimborazo (see Bulletin No. 3).

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